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The mutual influence of reactive and non-reactive scattering channels in atom–molecule collisions. I. SIMBOTIN, R. CÔTÉ, University of Connecticut, A. DALGARNO, ITAMP, Harvard–Smithsonian Center for Astrophysics — In this work, we study D+H₂ collisions for the main purpose of understanding the influence of the reactive scattering channels on the non-reactive scattering channels. We will present a detailed quantitative comparison between the results of full calculations (including rearrangement) and non-reactive calculations. We perform this comparison by artificially eliminating the possibility of rearrangement and by allowing only for inelastic scattering.

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